

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CTR ACCEPTANCE

NASA/GODDARD SPACE FLIGHT CENTER

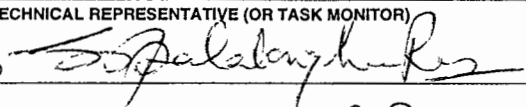
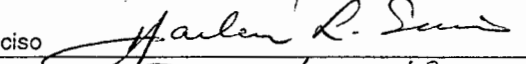
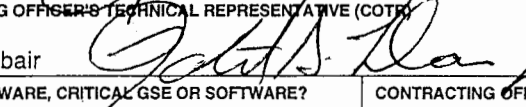
REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO./TASK NO.	JOB ORDER NUMBER	APPROP. FY
QSS Group, Inc.	NAS5- 99124 TASK NO. 255 AMENDMENT	563-458-40-31-89	2000

TASK TITLE: (NTE 80 characters; include Project name)

Characterization and Destructive Physical Analysis of HST cells.

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)	DATE	ORG CODE	MAIL CODE	PHONE
Gopal Rao 	4/3/2000	563	563	301-286-6654
Marlon Enciso 	4/3/2000		563	301-286-5845
CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)	DATE	CODE		PHONE
Robert Lebar 	4/2/00		568	301-286-6382
FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE? (IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)	CONTRACTING OFFICER'S QUALITY REP.		DESIGNATED FAM:	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)
C.O. Requested Quote on:
Date:

Contractor will develop specification or statement of work under this task for a future procurement.	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
Flight hardware will be shipped to GSFC for testing prior to final delivery.	<input type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A
Government Furnished Property/Facilities:	<input type="checkbox"/> NO <input checked="" type="checkbox"/> YES - SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)
Onsite Performance:	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If yes: <input type="checkbox"/> TOTAL <input type="checkbox"/> PARTIAL If partial, indicate onsite work in SOW by asterisk (*)
Surveillance Plan Attached:	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
Highlighted Contract Clauses:	(to be completed by Contracting Officer)

The effective date of this task order is the same as the date of the Contracting Officer's signature below.

INCENTIVE FEE STRUCTURE (check one)

	No. 1	x	No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 23,913.

The target fee of this task order is \$ 169.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 24,082.

The maximum fee is \$ 246.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"



SIGNATURE OF CONTRACTING OFFICER

5/2/00

DATE

ELIZABETH J. AUSTIN
CONTRACTING OFFICER

TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO./TASK NO.	TASK NO.	AMENDMENT
QSS Group, Inc.	NAS5- 99124	255	

Applicable paragraphs from contract Statement of Work: Function 2.D.7

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

The contractor shall provide services to perform Characterization of cells and Destructive Physical Analysis (DPA) of one (1) NiH2 cell for the HST Program. GSFC shall provide total ten (10) 93 Ah NiH2 cells. Of the ten three (3) cells will be shipped from MSFC. One of the three MSFC cells shall be subjected to DPA.

The contractor shall provide the following services:

Perform electrical characterization test on all ten(10) cells as follows:

- Provide cell capacities at 20, 10 and 0 degrees C.
- Perform Charge retention test at 10 degrees C.
- Provide special cell capacity at 10 degrees C - charge at 9.3 A for 10 hrs. and 4 A for 14 hrs., open circuit for 1 hr., and discharge at 15 A.

Perform cell reversal test on three MSFC cells and one other selected cell per Dr. Zimmerman's procedure.

Present electrical characterization data to ATR and/or his representative.

Ship with ATR concurrence TBD cells to MSFC.

Prior to DPA of one of the three MSFC cells -

- Notify ATR or his representative of the cell teardown date and time.
- Perform gas analysis prior to cell teardown.
- Take Photographs of cell components as the cell is opened.
- Inspect each component within the plate stack, inner case of cell, and cell terminals.
- Perform electrical, chemical, and metallographical analyses of cell components.

The contractor shall present the results from the electrical characterization test to the ATR within 72 hours of the completion. The contractor with ATR concurrence ship TBD number of cells to MSFC within 72 hours of Characterization data review. The contractor shall notify the ATR of cell teardown date and time 72 hours prior to the event. Upon completion of the DPA, the contractor shall submit a final report to the ATR within 14 days. The report shall include the contractor's technical recommendation on whether the cells are considered to be aerospace quality and of worthy for further testing at MSFC.

ATR's phone # - (301)286-6654, FAX # (301)286-1751, and email address - Gopalakrishn.M.Rao.1@gsfc.nasa.gov

PERFORMANCE SPECIFICATIONS:

All plans and testing under this task are to be produced and performed using aerospace cell testing Practice.

APPLICABLE DOCUMENTS:

None.

TASK END DATE: 7/31/00

MILESTONES/DELIVERABLES AND DATES:

Characterization test results	Within 72 hours of the completion
Shipping of cells to MSFC	Within 72 hours of the Characterization data review
Cell teardown date and time	Within 72 hours after the completion of Characterization testing
Complete DPA	Within 3 months of receipt of cell by the contractor
Interim Report	Within 3 days after completion of DPA
Final Report	Within 14 days after completion of DPA

PERFORMANCE STANDARDS:

Schedule: On-time delivery of the above.
Technical: ATR's acceptance of the above.

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Gopal Rao, Code 563, B-20, Room 166